

**What is claimed is:**

1. A mobile communications service providing system in which location registration request information is transmitted from a mobile node to a home agent via a foreign agent and a server system, and information in reply to the location registration request information is returned from the home agent to the mobile node via the server system and the foreign agent, so that a location of the mobile node is registered to the home agent and the foreign agent, and a mobile communications service is provided based on the registration, wherein:
  - the home agent and the foreign agent comprise a controlling unit determining a transfer destination of a packet;
  - the server system comprises
    - an extracting unit extracting a service profile corresponding to the mobile node from a database for managing a service profile which includes information for providing a service requested by the mobile node,
    - a service managing unit editing the service profile extracted by said extracting unit into a format that is available to said controlling unit, and
    - a distributing unit distributing the service

profile edited by said service managing unit to the home agent and the foreign agent, and

the home agent and the foreign agent provide a service by using said controlling unit according to the  
 5 service profile distributed from the server system.

2. The system according to claim 1, wherein  
 the server system does not distribute a service  
 profile to the home agent and the foreign agent, if the  
 10 mobile node does not request a value-added service, and  
 the home agent and the foreign agent provide a  
 fundamental service according to information that the  
 home agent and the foreign agent themselves generate.

15 3. The system according to claim 1, wherein:  
 an address range available for a predetermined  
 service is specified beforehand;

a service profile including information  
 representing the address range which is specified  
 20 beforehand is set in the home agent and the foreign agent  
 as a condition for extracting a corresponding packet  
 from among received packets; and

the server system assigns an address within the  
 address range to the mobile node that requests the  
 25 predetermined service.

4. The system according to claim 1, wherein:  
the server system comprises a home server device  
which has a right to access the database in order to  
5 extract the service profile for the mobile node, and  
a foreign server device which does not have such an access  
right; and

the home server device distributes the service  
profile to the home agent and the foreign server device,  
10 and the foreign server device forwards the service  
profile to the foreign agent.

5. The system according to claim 1, wherein:  
the server system comprises a home server device  
15 which has a right to access the database in order to  
extract the service profile for the mobile node, and  
a foreign server device which does not have such an access  
right; and

the home server device distributes the service  
20 profile to the foreign server device, and the foreign  
server device forwards the service profile to the home  
agent and the foreign agent.

6. The system according to claim 1, wherein:  
25 the server system comprises a home server device

which has a right to access the database in order to extract the service profile for the mobile node, and a foreign server device which does not have such an access right;

5           the mobile node notifies the home agent of location registration request information via a second foreign agent when moving from a communication area of a first foreign agent to a communication area of the second foreign agent;

10           the home agent updates information for routing a packet so that a packet addressed to the mobile node is transferred to the second foreign agent; and

            the foreign server device distributes the service profile to the second foreign agent.

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7.       The system according to claim 1, wherein:

            the server system comprises a home server device which has a right to access the database in order to extract the service profile for the mobile node, and  
20       first and second foreign server devices which do not have such an access right;

            the mobile node notifies the home agent of location registration request information via a second foreign agent, the second foreign server device, and the home  
25       server device when moving from a communication area of

a first foreign agent managed by the first foreign server device to a communication area of the second foreign agent managed by the second foreign server device;

the home agent updates information for routing a  
5 packet so that a packet addressed to the mobile node is transferred to the second foreign agent; and

the home server device distributes the service profile to the second foreign server device, which then forwards the service profile to the second foreign agent.  
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8. The system according to claim 1, wherein:

the server system comprises a home server device which has a right to access the database in order to extract a service profile for the mobile node, and  
15 first and second foreign server devices which do not have such an access right;

the mobile node notifies the home agent of location registration request information via a second foreign agent, the second foreign server device, the home server device, and the first foreign server device when moving  
20 from a communication area of a first foreign agent managed by the first foreign server device to a communication area of the second foreign agent managed by the second foreign server device;

25 the home agent updates information for routing a

packet so that a packet addressed to the mobile node is transferred to the second foreign agent; and

the home server device distributes the service profile to the second foreign server device, which then  
5 forwards the service profile to the second foreign agent.

9. The system according to claim 1, wherein:  
upon receipt of the packet addressed to the mobile node from a correspondent node, the home agent  
10 distributes to the correspondent node a service profile for extracting a packet in which the mobile node is set as a destination; and

the correspondent node generates information for transmitting to the foreign agent a packet which is  
15 extracted according to the distributed service profile.

10. The system according to claim 1, wherein  
when providing a service for transferring to an arbitrary mobile node among a plurality of mobile nodes  
20 a packet with a virtual address assigned to the plurality of mobile nodes as a destination:

an address proxy server receiving the packet with the virtual address is arranged; and

the server system distributes to said address proxy  
25 server a service profile for extracting the packet with

the virtual address is assigned and transferring the extracted packet to the particular mobile node among the plurality of mobile nodes, and also distributes to a foreign agent a service profile for transferring to  
 5 the particular mobile node a packet addressed to the foreign agent which accommodates the particular mobile node.

11. A mobile communications service providing  
 10 method with which location registration request information is transmitted from a mobile node to a home agent via a foreign agent and a server system, and information in reply to the location registration request information is returned from the home agent to the mobile  
 15 node via the server system and the foreign agent, so that a location of the mobile node is registered to the home agent and the foreign agent, and a mobile communications service is provided based on the registration, wherein:

20 the home agent and the foreign agent comprise a controlling unit determining a transfer destination of a packet, the method comprising:

extracting, by the server system, a service profile corresponding to the mobile node from a database for  
 25 managing a service profile which includes information

for providing a service requested by the mobile node;  
 editing, by the server system, the extracted  
 service profile into a format that is available to the  
 controlling unit; and

5        distributing the edited service profile from the  
 server system to the home agent and the foreign agent,  
 and

the home agent and the foreign agent provide a  
 service by using the controlling unit according to the  
 10       service profile distributed from the server system.

12.    A mobile communications service providing  
 method with which location registration request  
 information is transmitted from a mobile node to a home  
 agent via a foreign agent and a server system, and  
 15       information in reply to the location registration request  
 information is returned from the home agent to the mobile  
 node via the server system and the foreign agent, so  
 that a location of the mobile node is registered to the  
 20       home agent and the foreign agent, and a mobile  
 communications service is provided based on the  
 registration, the method comprising:

extracting, by the server system, a service profile  
 corresponding to the mobile node from a database for  
 25       managing a service profile which includes information



for providing a service requested by the mobile node;  
 editing, by the server system, the extracted  
 service profile into a format that is not dependent on  
 a service type; and

5        distributing the edited service profile from the  
 server system to the home agent and the foreign agent,  
 and

the home agent and the foreign agent provide a  
 service according to the service profile distributed  
 10      from the server system.

13.    A mobile communications service providing  
 method used in a system which comprises a database for  
 managing a service profile which includes information  
 15      for providing a service requested by a mobile node, a  
 plurality of agents which can respectively accommodate  
 the mobile node, and a server which extracts a service  
 profile for the mobile node and distributes the extracted  
 service profile to the agents which accommodate the  
 20      mobile node, wherein:

the plurality of agents respectively comprise a  
 controlling unit determining a transfer destination of  
 a packet;

the server edits the service profile extracted from  
 25      the database into a format that is available to the

controlling unit arranged in the agents, and distributes the edited service profile to the agents which accommodate the mobile node; and

the agents which accommodate the mobile node  
 5 provide a service by using the controlling unit according to the service profile edited by the server.

14. A server system used in a mobile communications service providing system in which  
 10 location registration request information is transmitted from a mobile node to a home agent via a foreign agent and a server system, and information in reply to the location registration request information is returned from the home agent to the mobile node via  
 15 the sever system and the foreign agent, so that a location of the mobile node is registered to the home agent and the foreign agent, and a mobile communications service is provided based on the registration, said server system comprising:

20 an extracting unit extracting a service profile for the mobile node from a database for managing a service profile which includes information for providing a service requested by a mobile node;

a service managing unit editing the service profile  
 25 extracted by said extracting unit into a format that

is available to a controlling unit for determining a transfer destination of a packet by the home agent and the foreign agent; and

5 a distributing unit distributing the edited service profile to the home agent and the foreign agent so that the home agent and the foreign agent provide a service by using the controlling unit according to the service profile edited by said service managing unit.

10 15. An agent device as a home agent or a foreign agent for use in a mobile communications service providing system in which location registration request information is transmitted from a mobile node to the home agent via the foreign agent and a server system,  
15 and information in reply to the location registration request information is returned from the home agent to the mobile node via the server system and the foreign agent, so that a location of the mobile node is registered to the home agent and the foreign agent, and a mobile  
20 communications service is provided based on the registration, said agent comprising:

a service-independent unit determining a processing method for a received packet according to header information of the received packet;

25 an individual service controlling unit using said

service-independent unit according to a service profile  
edited into a format that is available to said  
service-independent unit by the server system; and

a packet controlling unit processing a packet  
5 according to a processing result of use of said  
service-independent unit.

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